

## Product Information

### Benzyl PEG reagent, Benzyl-PEG5-CH<sub>2</sub>CO<sub>2</sub>-*t*-Bu, Purity 98%

**Cat. No.:** X24-03-YW0191

**Size:** 500 mg; 1 g; 5 g

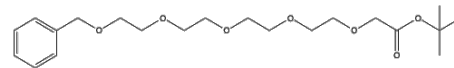
**CAS Number:** 1807503-89-4

**PubChem CID:** 77078166

**Synonym:** 1807503-89-4; Benzyl-PEG5-CH<sub>2</sub>CO<sub>2</sub>tBu; BnO-PEG4-Boc; *Tert*-butyl

1-phenyl-2,5,8,11,14-pentaoxahexadecan-16-oate; AKOS040741400

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

|                           |                                                                                                                                                                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>        | Benzyl-PEG5-CH <sub>2</sub> CO <sub>2</sub> tBu is a PEG linker featuring a benzyl and <i>t</i> -butyl protecting group. These groups are sensitive to acid hydrolysis. The inclusion of a hydrophilic PEG linker enhances the compound's solubility in aqueous environments.        |
| <b>Molecular Weight</b>   | 398.5                                                                                                                                                                                                                                                                                |
| <b>Molecular Formula</b>  | C <sub>21</sub> H <sub>34</sub> O <sub>7</sub>                                                                                                                                                                                                                                       |
| <b>Functional Group 1</b> | Benzyl                                                                                                                                                                                                                                                                               |
| <b>Functional Group 2</b> | None                                                                                                                                                                                                                                                                                 |
| <b>Functional Group 3</b> | None                                                                                                                                                                                                                                                                                 |
| <b>IUPAC Name</b>         | <i>Tert</i> -butyl 2-[2-[2-[2-(2-phenylmethoxyethoxy)ethoxy]ethoxy]ethoxy]acetate                                                                                                                                                                                                    |
| <b>InChI</b>              | InChI=1S/C21H34O7/c1-21(2,3)28-20(22)18-27-16-14-25-12-10-23-9-11-24-13-15-26-17-19-7-5-4-6-8-19/h4-8H,9-18H2,1-3H3                                                                                                                                                                  |
| <b>InChI Key</b>          | USXLULCFEHFJGM-UHFFFAOYSA-N                                                                                                                                                                                                                                                          |
| <b>Canonical SMILES</b>   | CC(C)(C)OC(=O)COCCOCCOCCOCCOCC1=CC=CC=C1                                                                                                                                                                                                                                             |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                               |
| <b>Purity</b>             | 98%                                                                                                                                                                                                                                                                                  |
| <b>Solubility</b>         | DCM, DMF                                                                                                                                                                                                                                                                             |
| <b>Identity</b>           | Confirmed by NMR.                                                                                                                                                                                                                                                                    |
| <b>Applications</b>       | Benzyl-PEG5-CH <sub>2</sub> CO <sub>2</sub> tBu facilitates specific modifications through acid-catalyzed reactions. The hydrophilic nature of the PEG linker enhances the compound's dispersibility in water-based solutions, making it ideal for diverse conjugation applications. |
| <b>Storage</b>            | Store at -20°C                                                                                                                                                                                                                                                                       |

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